LAST	NAME (Print):FIRST:
Statist	cs 111 Quiz 15
1	Let 1, 2, 3 be a random sample from a Poisson(λ) distribution. Find the MLE of λ .
2	Let 0.25, 0.5, and 0.75 be a random sample from a Beta(α , 1). Find the MLE of α .
	X_i be normally distributed with mean i and standard deviation i for $i = 1, 2, 3$. Suppose the riance between X_1 and X_2 is 2, and X_3 is independent of both. Let $Y = X_1 + 2X_2 - 3X_3$.
	What is the name for the distribution of Y ?
	What is the mean of that distribution?
	What is the standard deviation of that distribution?
	What is the correlation between X_1 and X_2 ?
	What is the correlation between X_1 and X_3 ?
	Why is $Var[X_1 + X_2] > Var[X_1 - X_2]$?
4. List	only the true statements. (3 points)
Α.	The pivot bootstrap is more accurate than the percentile bootstrap.

B. Asymptotically, the bootstrap is never worse than the CLT.

 ${\bf C}.$ Brad Efron invented the bootstrap.